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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-01-04-16** **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 11-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11)-1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.06	_
2	Finess by Air permeablity method (m^2/kg,Min)	299.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-04-16** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/173/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100.0	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	7294	7482	49.9	50.1	30-70
4	10 mm	4079	11561	77.1	22.9	10-35
5	4.75 mm	3011	14572	97.1	2.9	0-5
6	Pan	428	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-04-16** **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer Reference	:	BBMP/EE/YNK.D/W.O/173/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	190	190	3.8	96.2	90-100
3	10 mm	3059	3249	65.0	35.0	25-55
4	4.75 mm	1500	4749	95.0	5.0	0-10
5	Pan	251	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-04-16 **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-04-16** **Date: 18-11-19**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 16-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 16-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 08-12-19

Lab ID	:	**CP-2020-01-04-16**
Project Name	:	Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/173/2019-20
Date of Receipt	:	04-12-19
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.516	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.522	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.518	31567	241.5	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.39 X 151.71 X 151.31	22664	8.346	423.2	18.7	18.5
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.35 X 151.72 X 150.00	22811	8.664	416.7	18.3	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.57 X 151.03 X 151.08	22741	8.798	421.4	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Puttennahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.57 X 151.63 X 150.01	22832	8.346	427.5	18.7	
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.53 X 151.02 X 151.13	22582	8.664	422.9	18.7	18.6
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.42 X 151.82 X 151.31	22684	8.798	418.0	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16

Date: 26/11/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.04 X 149.02 X 149.94	22209	8.346	418.6	18.8	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.53 X 149.07 X 151.90	22588	8.664	407.5	18.0	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.06 X 150.54 X 151.83	22740	8.798	419.3	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.09 X 149.32 X 149.60	22562	8.346	421.6	18.7	18.5
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.04 X 151.85 X 149.23	22632	8.664	418.1	18.5	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.02 X 151.96 X 149.22	22950	8.798	421.5	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 27/11/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.50 X 151.33 X 151.31	22927	8.346	435.3	19.0	18.8
2	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	150.49 X 149.32 X 150.93	22470	8.664	413.3	18.4	
3	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.74 X 150.42 X 150.17	22825	8.798	432.2	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-04-16** **Date: 27/11/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.99 X 150.61 X 150.54	22891	8.346	412.1	18.0	18.6
2	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	149.37 X 149.13 X 151.41	22275	8.664	421.6	18.9	
3	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	149.09 X 149.77 X 151.52	22328	8.798	423.0	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 23/12/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	150.20 X 150.99 X 150.69	22678	8.325	534.0	23.5	23.4
2	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	150.02 X 150.18 X 149.07	22530	8.631	515.7	22.9	
3	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	150.95 X 150.54 X 149.72	22724	8.060	539.2	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 02/12/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.44 X 150.82 X 150.94	22540	8.346	428.1	19.0	18.8
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.93 X 149.03 X 149.55	22492	8.664	425.2	18.9	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.24 X 151.25 X 150.41	22572	8.798	415.9	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16

Date: 02/12/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.59 X 149.04 X 149.25	22296	8.346	404.8	18.2	18.4
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.64 X 151.56 X 150.92	22982	8.664	427.5	18.6	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	149.32 X 151.50 X 151.00	22622	8.798	417.5	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 **Date: 02/12/2019**

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.96 X 149.01 X 151.85	22645	8.346	422.5	18.7	18.8
2	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	151.07 X 149.90 X 151.42	22646	8.664	422.9	18.7	
3	Drain Side Wall Concrete	M20	25/11/2019	02/12/2019	150.28 X 150.03 X 150.27	22547	8.798	428.2	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16

Date: 23/12/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 27-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	151.26 X 150.24 X 149.68	22726	8.325	526.0	23.1	23.2
2	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	150.10 X 151.50 X 151.25	22740	8.631	514.9	22.6	
3	Drain Side Wall Concrete	M20	25/11/2019	23/12/2019	151.39 X 150.31 X 150.84	22756	8.060	538.4	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16

Date: 03/12/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 28-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	150.20 X 150.38 X 151.57	22588	8.346	424.8	18.8	18.8
2	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	149.61 X 150.83 X 151.09	22566	8.664	425.4	18.9	
3	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	149.33 X 149.49 X 150.66	22323	8.798	415.7	18.6	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2019

Lab ID	:	CP-2020-01-04-16
Project Name	:	Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/173/2019-20
Date of Receipt	:	28-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	150.73 X 149.13 X 151.97	22479	8.325	527.8	23.5	23.2
2	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	151.79 X 151.91 X 150.93	23059	8.631	517.2	22.4	
3	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	149.40 X 151.93 X 150.05	22699	8.060	536.1	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16

Date: 03/12/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 28-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	149.74 X 151.09 X 149.47	22623	8.346	412.2	18.2	18.5
2	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	150.38 X 149.58 X 149.39	22494	8.664	413.1	18.4	
3	Drain Side Wall Concrete	M20	26/11/2019	03/12/2019	151.58 X 149.18 X 151.27	22613	8.798	426.2	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-16 Date: 24/12/2019

Project Name : Improvements to Roads and Drains at Puttenahalli Janatha Colony Main and Cross Roads and surrounding areas in ward No-02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhasyam Circle Bangalore: 560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/173/2019-20

Date of Receipt : 28-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	149.97 X 149.62 X 151.28	22439	8.325	536.4	23.9	23.3
2	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	149.64 X 149.89 X 150.42	22429	8.631	509.5	22.7	
3	Drain Side Wall Concrete	M20	26/11/2019	24/12/2019	150.23 X 150.06 X 151.81	22543	8.060	528.0	23.4	

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